

## Contents Volume 93, 1991

### Special Issue "Organic Geochemistry of Hydrocarbon Basins", by J.A. Curiale, R. Alexander and P.W. Brooks (Editors)

<i>Preface</i> , by J.A. Curiale, R. Alexander and P.W. Brooks (Editors) .....	vii
Biomarker analysis of oils and source rocks using a thermal extraction–GC–MS	
M. Bjorøy, K. Hall, P.B. Hall (Trondheim, Norway), P. Leplat and R. Løberg (Bruxelles, Belgium) .....	1
Carbon isotope variations in <i>n</i> -alkanes and isoprenoids of whole oils	
M. Bjorøy, K. Hall (Trondheim, Norway), P. Gillyon and J. Jumeau (Middlewich, U.K.) .....	13
The petroleum geochemistry of Canadian Beaufort Tertiary "non-marine" oils	
J.A. Curiale (Brea, Calif., U.S.A.) .....	21
The potential application of stable isotopes for distinguishing indigenous versus migrated hydrocarbons in a mature shale/sandstone sequence	
M.H. Engel (Norman, Okla., U.S.A.), S.A. Macko (Charlottesville, Va., U.S.A.) and D. Leythaeuser (Jülich, Germany) .....	47
Biomarker distributions in crude oils and source rocks from different sedimentary environments	
Fan Pu (Lanzhou, People's Republic of China), R.P. Philp (Norman, Okla., U.S.A.), Li Zhenxi, Yu Xinke and Ying Guangguo (Lanzhou, People's Republic of China) .....	61
Factors affecting Rock-Eval derived kinetic parameters	
D.M. Jarvie (Humble, Texas, U.S.A.) .....	79
Biomarkers in Tertiary mélange, western Olympic Peninsula, Washington, U.S.A.	
K.A. Kvenvolden, F.D. Hostettler, J.B. Rapp and P.D. Snaveley, Jr. (Menlo Park, Calif., U.S.A.) .....	101
Photochemistry of an unusual exsudatinitite in Permian Basin shales	
C.R. Landis, S. Gangopadhyay and W.L. Borst (Lubbock, Texas, U.S.A.) .....	111
Geochemical characteristics of oils from the Sirikit Oilfield, Phisanulok Basin, Thailand	
K. Lawwongngam and R.P. Philp (Norman, Okla., U.S.A.) .....	129
Isotopic compositions of individual carbohydrates as indicators of early diagenesis of organic matter in peat	
S.A. Macko (St. John's Nfld., Canada), M.H. Engel (Norman, Okla., U.S.A.), G. Hartley (Sackville, N.B., Canada), P. Hatcher (University Park, Pa., U.S.A.), R. Helleur, P. Jackman (St. John's, Nfld., Canada) and J.A. Silfer (Norman, Okla., U.S.A.) .....	147
A statistical approach to the interpretation of aliphatic hydrocarbon distributions in marine sediments	
J.B. Rapp (Menlo Park, Calif., U.S.A.) .....	163
30-Norhopanes: their occurrence in sediments and crude oils	
E.A. Subroto, R. Alexander and R.I. Kagi (Perth, W.A., Australia) .....	179
Basic nitrogen compounds in bitumen and crude oils	
M. Yamamoto, K. Taguchi and K. Sasaki (Sendai, Japan) .....	193
<i>Publisher's Note</i> .....	207
<i>Research Papers</i>	
Chemistry of hydrothermal fluids from the 17°S active site on the North Fiji Basin Ridge (SW Pacific)	
D. Grimaud (Paris, France), J.-I. Ishibashi (Tokyo, Japan), Y. Lagabrielle (Brest, France), J.-M. Auzende (Plouzane, France) and T. Urabe (Tsukuba, Japan) .....	209
Rare-earth element mobility during hydrothermal and metamorphic fluid–rock interaction and the significance of the oxidation state of europium	
M. Bau (Berlin, Federal Republic of Germany) .....	219
Pb isotopic systematics of alkaline volcanic rocks and carbonatites from the Kaiserstuhl, Upper Rhine rift valley, F.R.G.	
H. Schleicher (Freiburg, Federal Republic of Germany), A. Baumann (Münster, Federal Republic of Germany) and J. Keller (Freiburg, Federal Republic of Germany) .....	231

The effects of weathering on rare-earth element, Y and Ba abundances in Tertiary basalts from southeastern Australia	
R.C. Price, C.M. Gray, R.E. Wilson (Bundoora, Vic., Australia), F.A. Frey (Cambridge, Mass., U.S.A.) and S.R. Taylor (Canberra, A.C.T., Australia)	245
Geochemical indicators of depositional and early diagenetic facies in Holocene carbonate muds, and their preservation potential during stabilisation	
J.E. Andrews (Norwich, U.K.)	267
Chemical changes induced in aragonite using treatments for the destruction of organic material	
K.M. Love and A. Woronow (Houston, Texas, U.S.A.)	291
Interaction between calcium carbonate and organic matter: An example from the Rosso Ammonitico Veronese (Veneto, north Italy)	
L. Scudeler Baccelle and S. Nardi (Padova, Italy)	303
Lipids in the surface water of the Karevansuo virgin bog, southwestern Finland	
K. Lehtonen, M. Ketola and G. Glöckert (Turku, Finland)	313
Distribution of alkylated aromatic hydrocarbons and dibenzothiophenes in rocks of the Upper Rhine Graben	
M. Radke, D.H. Welte and H. Willsch (Jülich, Federal Republic of Germany)	325
<i>Contents Volume 93, 1991</i>	343

